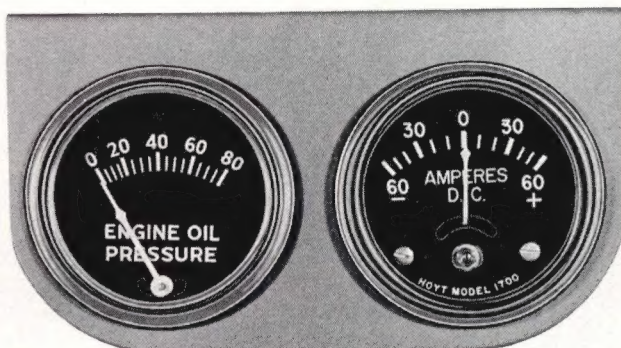


# Hoyt Automotive

**BATTERY TESTERS  
TUNE-UP TESTERS  
VOLTMETERS  
AMMETERS**

## **NEW! HOYT NO. 1700 AMMETER AND OIL GAUGE COMBINATION**

- GIVES COMPLETE INDICATION IMMEDIATELY OF IMPENDING TROUBLE
- MOUNTS UNDER DASH
- GRAY BRACKET HARMONIZES BEAUTIFULLY WITH INTERIORS



APPROXIMATELY TWO-THIRDS SIZE

**SPOT TROUBLE  
AT A GLANCE  
WITH THE  
HOYT NO. 1700  
AMMETER AND  
OIL GAUGE**

The No. 1700 Combination is a **MUST** if you want dependability of vehicle operation! This unit tells the **COMPLETE** story of engine operation, not just the "on and off" story that red warning lights do. Remember, red warning lights **WON'T** tell you the existence of—

- overcharging of battery
- low charging rate which may not be sufficient to maintain battery charge
- below normal operating oil pressure
- burned out red warning lights or defective wiring

Install the No. 1700 and **INSURE AGAINST THESE TROUBLES**. It is an inexpensive unit which saves the owner many more dollars than just **ONE BREAKDOWN** on the road.

The ammeter supplied has a 60-0-60 range with U-clamp mounting. It has an expanded scale for easier reading of low charging currents.

The oil gauge unit, of the same size as the ammeter reads 0-80 pounds and is supplied with U-clamp mounting, also. Graduations on dial are marked at every 5 pounds for close readings.

Unit comes packed with instructions for installation, but less wire and tubing. Measures 5¼" x 3". Net weight 12 oz. Separate ammeter-gauge, oil gauge, or bracket available on special order.



No. 1701 Display of the combination ammeter and oil gauge holds 3 No. 1700 units. It is attractively printed in red, yellow and black for an excellent counter display. Sells the stock easily.

Size: 13½" Wide x 10" High.

## **BURTON-ROGERS COMPANY**

**Sole Representatives for HOYT ELECTRICAL INSTRUMENT WORKS  
42 CARLETON STREET, CAMBRIDGE 42, MASS., U. S. A.**



# HOYT NO. 655 BATTERY CONDITION TESTER NO-LOAD TYPE

## Features:

1. BEAUTIFUL CHROME CASE
2. RUGGED METER • Long Colored Scale
3. RUBBER CUSHIONED PROD HANDLE
4. ADJUSTABLE PROD FOR CELLS OF ALL 6 or 12 VOLT BATTERIES,  $2\frac{1}{2}" - 4\frac{1}{2}"$  SPAN.



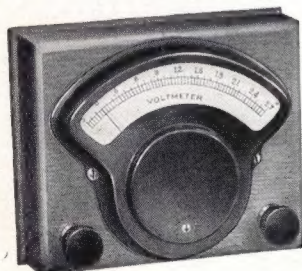
Hoyt No. 655 and 656. Reads to 1/100th of a volt on a long red, yellow, green scale. Rugged Hoyt precision meter movement is housed in a beautiful chrome case equipped with convenient hanger on case back for battery stand or bench. Comes complete with  $4\frac{1}{2}$  ft. coiled cord (stretched), pin-point tips on prods for testing cell straps through battery compound, rubber cushion on prod handle to absorb pressure on hand, and adjustable prod,  $2\frac{1}{2}"$  to  $4\frac{1}{2}"$  span, to test ANY cell on ANY 6 or 12 volt battery. Easy to use expanded scale voltmeter, with color blocks to show battery cell condition at a glance.

## TESTS BATTERIES 3 WAYS

1. NO LOAD open circuit method in car or on bench.
2. LOAD METHOD in car using starter.
3. CHARGING CONDITION by checking voltage regulator setting at battery.

## CADMIUM TEST VOLTMETER NO. 515

WITH PRODS, BAKELITE CASE -- 4 x 5 INCHES



NO. 515 CADMIUM TESTER

A precise long scale portable Voltmeter especially designed for Cadmium test work. The scale, which is over 3 inches long is calibrated in half-tenths of a volt for accurate Cadmium readings of real value to the battery man, in determining plate condition and setting the proper rate of charge. Special markings in red showing the limits of Voltage for positive and negative plates for each set of plates in both charged and discharged condition for acid-lead batteries, make readings quick and accurate. Supplied with a pair of test prods with leads, Cadmium Stick, and holder for attachment at right-angle to one prod.

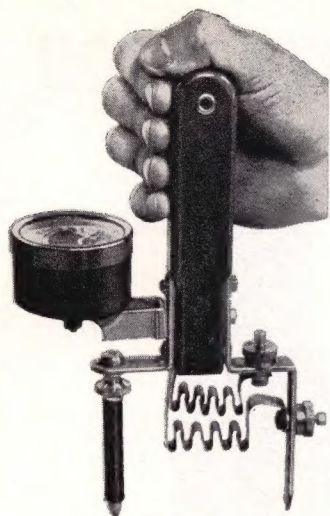


# HOYT PROD TYPE CELL TESTER

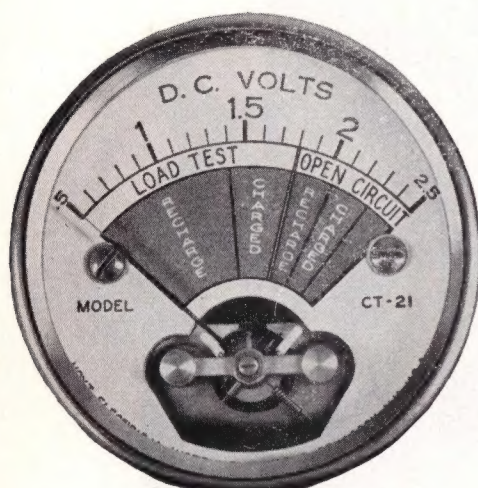
Now Test all 6 and 12-Volt Batteries Easily, Quickly, Accurately.

Note below many features that Hoyt Cell Testers give you :

1. PRODS ARE ADJUSTABLE AND WILL FIT THE TERMINALS OF ANY BATTERY, 6 or 12 volts. One prod can be moved in a specially designed slotted holder to obtain proper spacing to test batteries with cells mounted lengthwise.
2. SPECIAL SWITCH on frame changes load for either 6 or 12 volt battery cells.
3. SPECIAL LOAD METAL. Heat will not change its resistance. Load for 6 volt battery cell draws 150 amperes approx., and load for 12 volt battery cell draws 75 amperes approx. Both loads simulate three times the starter load on each battery cell.
4. SHARP POINTED PRODS ARE INSULATED so that they will not short against the metal edges of the hood or hand hole when testing battery in the car.
5. THE LARGE METER is an accurate instrument, ruggedly made for long and hard use. Meter measures two and one-half inches in diameter.
6. FULL SIZED COLORED DIAL HAS LONG SCALE FOR EASY READING. Divisions are large and clear. Scale markings enable the car owner to read the battery condition for himself. Sells batteries!
7. EASY-GRIP HANDLE with hole permits tester to be hung up when not in use.



TYPE CT-210



TYPE CT-210 DIAL

## EASY TO READ COLORED DIALS

The dials illustrated are actual size. The use of color with simple scale design takes the mystery out of battery testing for the car owner. It shows him the real condition of the battery on a dial he can read in plain English. This feature is of great value in selling new batteries or securing charging jobs.



TYPE CT 60

## THESE FEATURES SHOW WHY HOYT CELL TESTERS ARE THE BEST BUY.

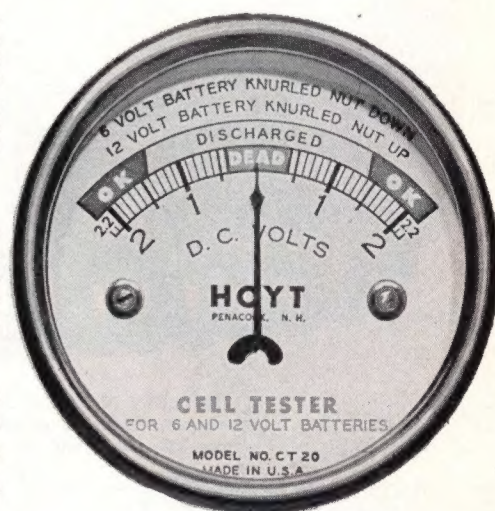
Made by the oldest manufacturer of cell testers, they incorporate many unique features which have been developed over the years. Now, with 12 volt batteries in use in the automotive field, Hoyt has developed these testers for the garageman who will be servicing not only 6-volt batteries but 12 volt types as they become more widely used.

**CT-210**—This fine quality, extremely sensitive instrument has all the features described above, including the NEW "double-load" test. In addition, it makes an open circuit or "no load" test on a battery cell, as it is equipped with TWO "nut type" switches for selection of the test desired.

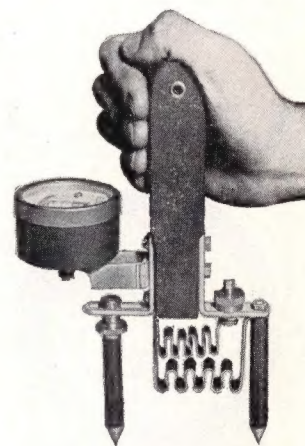
Furthermore the No. CT/210 has a moving-coil meter of precise accuracy. Its movement contains an Alnico magnet, and turns on jewelled bearings. The zero is suppressed in order to show VERY SMALL VOLTAGE DIFFERENCES, so important in determining cell condition at "open circuit." Proper polarity must be observed in applying the prods to a cell—they are clearly marked,—and the switches properly set for the kind of test and the kind of battery.

**CT-20**—FIRST OF THE NEW "DOUBLE LOAD" CELL TESTERS for 6 and 12 volt battery cells is made especially for the small garage or service station user who wants a quality cell tester for a moderate price. A large 2½" vane type voltmeter with colored dial in red, green and yellow is provided. The centre zero meter does not have to have correct polarity for a cell reading and is noted for its dependability, ruggedness, and ease of handling.

**CT-60**—This inexpensive cell tester is popular with the trade for both 6-volt and 12-volt batteries. It is strongly constructed and has a 2" diameter moving vane voltmeter reading 2.2-0-2.2 volts. The resistance load is approximately 125 amperes. This is a rugged, serviceable instrument offered at a most attractive price. Furnished with colored dial in green, red, and black.



TYPE CT-20 DIAL

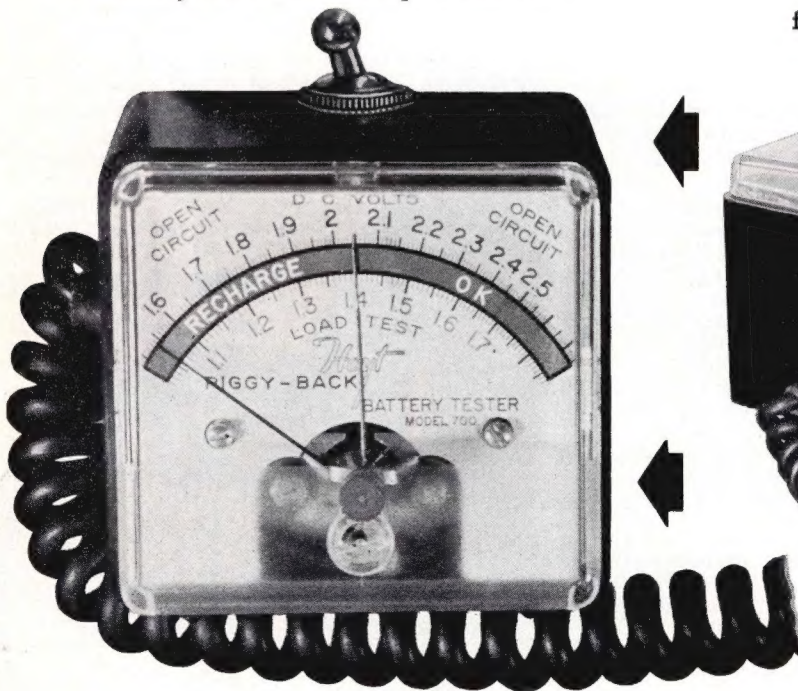


TYPE CT-20



# HOYT NO. 700 PIGGY BACK BATTERY TESTER

A Complete Battery Tester!



**LOADED  
WITH  
MANY  
FEATURES**

THE ONLY "LOAD TYPE" TESTER with a "Built-in Memory." A new rugged adjustable pointer SPEEDS TESTING. Just set to first cell reading—all other cells should read same or within 5 divisions.

REMOVABLE "PIGGY BACK" METER for customer checking while battery is tested in car. EXPANDED SCALE reads to 1/100th of a volt with LOAD or NO-LOAD on any 6 or 12 volt battery.

Meter  
lifts off  
for customer  
checking

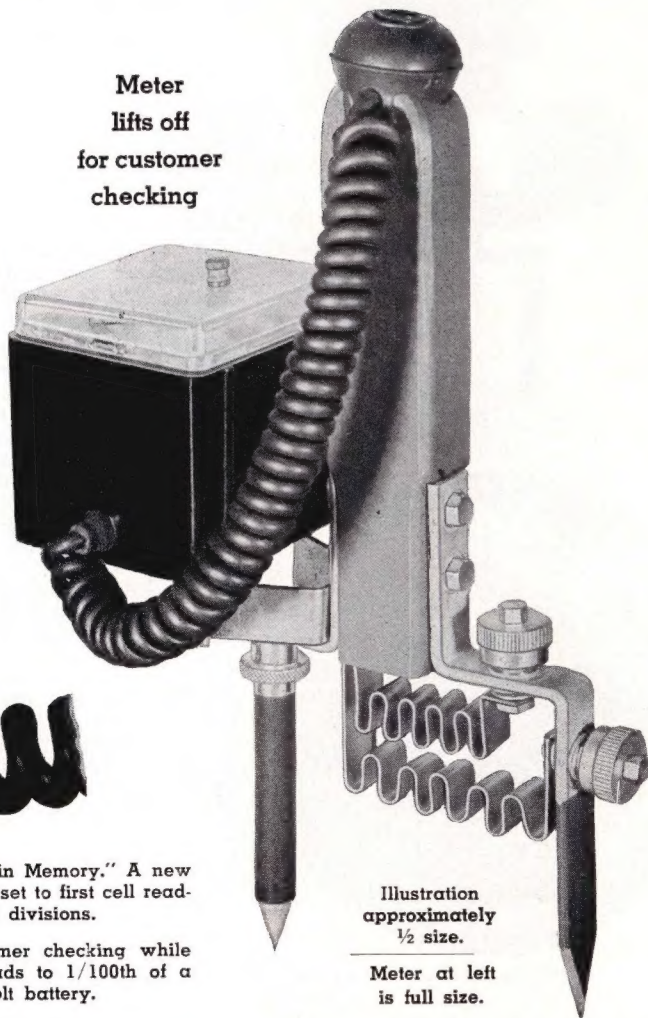


Illustration  
approximately  
1/2 size.

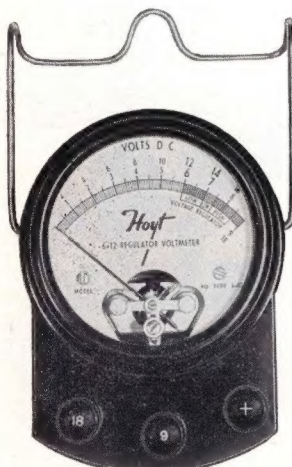
Meter at left  
is full size.

OTHER FEATURES: ADJUSTABLE PRODS to fit cells of ANY 6 or 12 volt battery—COILED CORD for compactness—rubber-cushioned hand prod—2% d'Arsonval meter with 90-DAY GUARANTEE—unbreakable water repellent meter front—SUPER SHARP PRODS for instant readings.

## HOYT REGULATOR TEST METERS

No. 578/V DC Voltmeter, 0/9/18 Volts

No. 578/A DC Ammeter, 10/0/100 Amps.

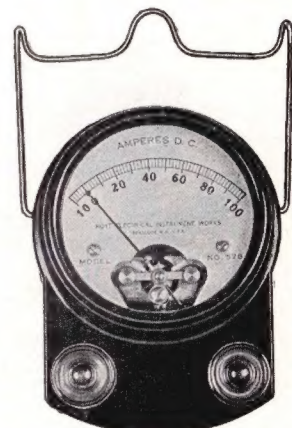


No. 578/V—0/9/18 Volts

The 578/V D.C. Voltmeter has a precision moving-coil movement with jewel bearings and knife-edge pointer for accurate readings to 1/10 of a volt as required today for setting regulators. It is housed in a small bakelite case with hanger, and supplied with a pair of test leads. Careful calibration of the important test points at 7 and 14 volts mean accurate adjustment of all regulators for both 6 and 12 volt batteries. Scale: 0/9 and 0/18 volts.

The companion ammeter, No. 578/A, for testing Current Regulators, has a high current capacity, 100 amps., for measuring heavy-duty or oversize generator output, including rectified current from alternator systems as well as current from all standard units on passenger cars and trucks. A small section of scale to the left of zero can be used for checking reverse current through cut-outs without changing the leads while testing. It is furnished in the same case as the voltmeter with hanger and a special pair of heavy current test-leads with heavy clips.

Illustrations one-half size



No. 578/A—10/0/100 Amps.

A SIMULTANEOUS READING OF BOTH VOLTAGE AND CURRENT CAN BE MADE WHEN USING BOTH INSTRUMENTS AT THE SAME TIME; AN AV-UNIT AT LOW COST.



# HOYT GENERATOR AND REGULATOR TESTER

COLORED SCALE — 0/18 Volts 5/0/60 Amps.

No. GT-18

FOR 6 AND 12 VOLT SYSTEMS

Tests All Generators, Regulators, Batteries, Cables, Wiring,  
Primary Coil Currents, Relays

This moving-coil type, double-scale, VOLT-AMMETER was designed to give the automotive electrician an instrument of small size and reasonable price that would be dependably accurate and make all important tests.

The sturdy black bakelite case is small enough to slip into the coat pocket—and is equipped with a hanger for hooking over the car door or bumper, or any convenient projection on the test-bench.



Illustration  
is approximately  
two-thirds size

Three terminals are provided marked: +, A, and V; and a pair of test leads with clips are supplied. Connection of the leads to the + and V terminals gives the user a precise voltmeter with a scale 2" long, reading 0/18 volts, 100 scale divisions together with a knife edge pointer, makes readings to 1/10-volt easy and accurate.

Connection of the leads to the + and A terminals gives the user a precise ammeter with a scale of 5-0-60 amperes divided into 1 amp. divisions—a high enough range to measure the output of special generators, but with easy readings of low currents down to 1/2 amp., by pressing button. The 5 amp. reverse reading is provided for checking opening of cutout relay. Compact. Just right for on-the-road jobs!



ONE-HALF SIZE

## No. 665 MULTI PURPOSE TESTER

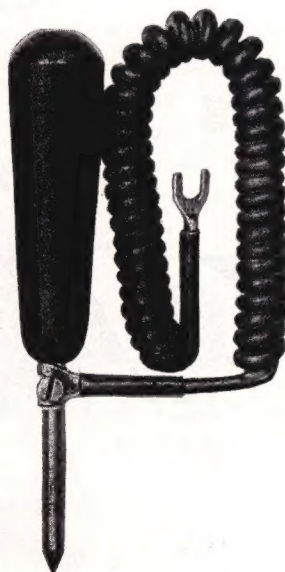
3 SCALES—.3/0/3/9/18 VOLTS

Tests 6 - 12 Volt Batteries, Voltage Regulators,  
Generators, Lights, Voltage Drop, and Makes  
Cadmium Test on Battery

The Hoyt 665 Multi-Purpose Tester is a complete meter designed for all types of automotive work. For quick and easy reading, a long clear scale of 3 volts is calibrated to 1/10 of a volt. This scale is used for testing cables and wires for voltage drop, electrical leaks, and for testing batteries by open circuit method, or cadmium test. A few divisions to the left of zero is used in cadmium testing or for voltage drop testing.

The meter dial also features a combined 9 and 18 volt scale with colored blocks for checking voltage regulators on either 6 or 12 volt cars, trucks, or boats. A new prod with replaceable coiled cord is supplied.

A cadmium stick and holder to fit the 606 prod, and instructions for making the cadmium test, can be supplied on special order as well as a pair of test leads for use with the meter when testing and adjusting regulators. Warranted for 90 days.





# GENERATOR CURRENT INDICATOR

NO. 663—Induction Type 75-0-75 Amps.

Newly Revised — Larger Meter — Very Handy to Use  
Long Scale — Low Price.

This is a useful and inexpensive portable D.C. Ammeter for measuring approximate generator current up to 75 amps. **WITHOUT "HOOKING-UP,"** or **BREAKING INTO THE CHARGING CIRCUIT.** Has wide divisions each side of zero for close readings.

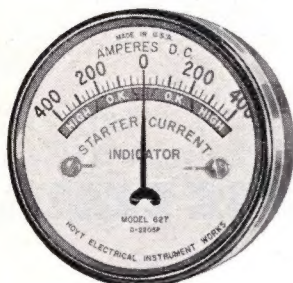
The meter is held over the cable carrying the current where such cable is straight. The meter reads direct. Makes a quick check on generator charging rate. Especially useful on late model cars **without** dash Ammeters.



## STARTER CURRENT INDICATORS

INDUCTION  
TYPE

No. 627—400-0-400 Amps. No. 629—600-0-600 Amps. No. 652—1000-0-1000 Amps.



A handy, inexpensive indicator for determining the approximate amount of current drawn by the starter of any automobile or truck. It is so easy to use because there are **NO CONNECTIONS TO MAKE, NO LEADS TO HOOK UP!** Simply place the wide V shaped slot, which is on the back of the meter, over the starter cable. (See worm's eye view on the right.) Press the starter switch and the meter will immediately show the approximate amount of current drawn by the starting motor. An attractive and easily read colored dial shows normal starter current draw.

Excellent for checking welder current also.

NOW, No. 627 has new longer, easy-reading scale.



Rear View of Current Indicator

## TWO ATTRACTIVE DISPLAYS

**No. 1300**—To sell the Hoyt 627 Starter Current Indicator faster and easier, you will want to place this attractive 3 color display on your counter or shelf. Five meters come already sight mounted in the heavy cardboard display which has an easel stand and printed in yellow, red, and black. Very compact in size—only 9" high by 12" wide. Get one! These meters sell themselves on sight with this display.

**No. 1401**—An attractive 3 color counter or shelf display for that most needed meter, the No. 663 Generator Current Indicator. For new cars without ammeters, the No. 663 sells on sight to mechanics. The heavy cardboard display with easel stand is 9" high by 12" wide and is printed in yellow, red, and black. Comes complete with five mounted meters and meter instructions.





# FAST VOLTAGE REGULATOR TESTER

## HOYT No. 651-BB VOLTMETER for Both 6 and 12 Volt Systems

### FAST — ACCURATE — LONG SCALE

Here is a tester that speeds up Voltage Regulator precision testing on the car. In addition, there are carefully calibrated scale blocks indicated to assist the user in promptly checking correct performance, or in locating trouble on all types of Voltage Regulators on all cars or light trucks—6 or 8 cylinders. Meter base in 4 x 5 inches, black bakelite with convenient hanger attached. Three insulated leads terminating in insulated clips are for connecting the voltmeter to battery (B), generator-armature, (A), and to any Convenient ground. A simply marked 2-position selector switch makes reading any one of these voltages a matter of seconds.

A switch at the left of the case marked "9" and "18" selects the proper scale for 6 or 12 volt systems.

No matter which battery terminal is grounded, a toggle-type reversing-switch always insures proper reading. This saves time in changing leads.

After once "hooking-up" to the regulator unit, clipping the ground lead to engine block and selecting the proper scale, readings are as easy as 1, 2, 3. Another advantage is that once engine speed is set by adjusting the throttle arm, all readings and adjustments can be made quickly, without stopping the engine.

Expert Auto Electricians appreciate immediately the time-saving provided by this instrument. At the same time its operation is so simple, its readings so clearly indicated, that any one who charges batteries, or checks cars looking for an electrical unit giving trouble, can use it to advantage.



### FIXED RESISTOR—HOYT NO. 633

Three-fourths Ohm for 6-volt Batteries, plus a 1½ Ohm for 12-Volt Batteries with leads and clips

The unit is properly designed and ruggedly constructed for long hard service. It can be used with any of the Hoyt Voltmeters or Voltammeter combinations designed for setting regulators, when battery has been disconnected.

## ALL PURPOSE AMMETER

### HOYT No. 626-BB

Is used with its companion tester, the 651-BB Voltage Regulator Tester, the two make a perfect combination for testing and adjusting all parts of the automotive electrical system.

The ammeter is mounted on a 4x5x2 inch bakelite base, the same as the volt meter, and has a convenient hanger for the car window or shop hook.

The scale is 3½ inches long and has 1 ampere divisions in the 10-0-60 ampere scale making it possible to read to within ½ ampere. The convenience of having a scale to the left of zero is for testing the regulator cutout opening point. Reversing the meter leads is not necessary to read this discharge current from the battery.

Colored blocks on scales 1 and 2 correspond to charging test 1 and discharge test 2 in the instructions.

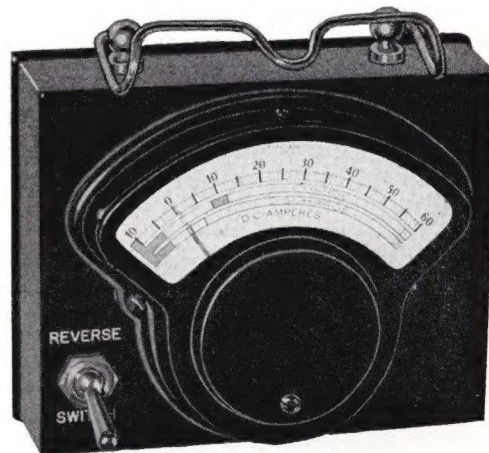
The meter is equipped with a reversing switch so that changing leads when the ammeter is connected in a circuit is unnecessary. When the needle swings into the red zone, flipping the switch is all that is necessary.

Two insulated 30" leads with clips provide safe and quick connection to wires and terminals.

(Illustration is three-quarters size)

### FIXED RESISTOR—HOYT NO. 633DR

The new Delco Series A regulator contains a voltage-control that is not affected by generator speed or current output, and requires a ¼-ohm resistor in series with the battery lead for testing on late 1953 cars, either 6 or 12 volt systems.



(Illustration is one-half size)



# HOYT VOLT-AMP TESTER—No. 628

**COMPLETE  
VOLTAGE COVERAGE**  
1/10th volt to 50 volts  
in 3 separate ranges:  
0-10-20-50 volts

**COMPLETE  
CURRENT COVERAGE**  
1 amp. to 80 amps.  
range: 7-0-80 amps.

**USE AMMETER  
and VOLTMETER  
AT SAME TIME**

**LARGE EASY-TO-READ  
METER WITH LONG  
4½ INCH SCALE  
UNBREAKABLE  
RAIN-PROOF FRONT**

**SEPARATE  
AMMETER-VOLTMETER  
LEADS CONNECTED  
INSIDE METER CASE  
PROVIDES FAST HOOKUP**

**MADE FOR LONG  
DEPENDABLE SERVICE**

The Hoyt Volt-Amp. Tester shown complete ready to use is the ultimate in the Hoyt Testers. The unit is approximately 7x3½x5½ inches in size, made of durable bakelite.

New large Hoyt clear plastic case meter with a 4½-inch scale has a d'Arsonval movement—accurate to within 2%; large figures on the meter dial make it easy to read and use; unbreakable moisture-proof front.

The voltage scale gives complete coverage for testing all types of electric systems: 6, 12, 24, and 32 volts on automotive, truck or marine applications. The 10 volt scale reads to 1/10th of a volt; 20 volt scale to 1/20ths of a volt; 50 volt scale to 1/50ths of a volt. The ampere range of 80 amperes, reading to 1 ampere, will also give complete current coverage. A reverse reading of 7 amperes is provided for easy testing of regulator cutouts.

A selector switch is provided for selecting the voltage range desired. Switching for practically simultaneous readings between volts and amperes when testing voltage regulators is possible as there is always an amp. position next to a voltage range.

A Normal-Reverse switch is provided so when meter reads backwards the changing of leads is not necessary—just flip the switch—it saves time!



ILLUSTRATION IS ABOUT HALF SIZE

The separate ammeter and voltmeter leads are connected inside the meter case thus preventing loss and the trouble of connecting leads to meter. The polarity of leads is marked on sides of the meter dial. Leads come out of each side of case—are out of the way, and can be clipped to the handle when not in use. The heavy-duty handle on the unit makes it easy to carry or hang when either testing or storing.

Complete instructions on how to use the Volt-Amp. Tester are furnished with each unit.

**The 628 Volt-Amp Tester makes these  
tests on 6, 12, 24, 32 Volt systems  
on Cars, Trucks, Busses, Boats:**

Tests: Battery, voltage regulator, generator system; Starter action; Cables and wires; High current drain of parts and accessories; Electrical leaks and short circuits; Coil Primary current draw; Solenoids; Special Generator and Alternator Systems.



# HIGH TENSION TESTER—No. 634 BB

For Either 6v. or 12v. Systems

This test meter is designed for overall tests of the high-tension circuit. It shows coil output, tests Cables, and Flywheel Magnetos. It is not a milliammeter or low-reading voltmeter. It has a very high resistance; a condenser; and is specially insulated so that high voltage will not leak inside or outside the tester case. High voltage leads with insulated clips complete the unit.

The figures on the dial are simply marked to show a difference between a low and high output. The colored markings on the dial are carefully located after many tests to show condition of all types of coils and magnetos at both IDLE and HIGH SPEED.

ON SINGLE-CYLINDER ENGINES WITH FLY-WHEEL MAGNETOS, of which there are thousands in use powering boats, tractors, lawnmowers, etc., tests can be easily made also.

ON AUTOMOTIVE IGNITION SYSTEMS—the highest reading is not necessarily the best; most important is the highest AND STEADIEST reading. Improper setting of breaker-points or a poor condenser will cause a low and irregular action of the meter needle. A low or high Battery or a Voltage-Regulator not set properly, will cause a variation in HIGH TENSION reading. On these systems a DC voltmeter, such as the HOYT 651, should be used first, and Battery and Voltage-Regulator must be made to function properly before HIGH TENSION TEST is made.

This Meter works very fast and will quickly detect a SKIP or MISS, due to faulty High Tension current. The fault may be in the wires or in the Distributor where the distributor-shaft bushing may be worn. All readings must be the same to each plug for proper ignition. The same is true on Magnetos, used on four-cylinder truck engines.



No. 634-BB

## HOYT CIRCUIT TESTER and OHMMETER - No. 630

TESTS: Open circuits—Short circuits—High resistance—In any electrical circuit—Gas gauges and gas tank units—Traces uncoded conduit wires—Checks "high resistance" spark-plug wires.

The Hoyt 630 circuit tester is a handy compact attractive bakelite unit with plastic carrying strap approximately 6x4x2½".

The Hoyt meter of modern clear plastic type has a 400 microampere movement of the d'Arsonval type with a sensitivity of 1000 ohms per volt. The divisions on the 3 inch long scale are marked clearly making it easy to take fast readings on either high or low ohms.

The unit has a two scale switch which provides a LOW ohm scale of ¼ to 5000 ohms, and a HIGH ohm scale of 0-500,000 ohms.

A zero adjuster is provided so the meter can be adjusted to zero ohms and accurate tests can be made at all times.

The unit comes complete with 30" test leads with Alligator clips and a 1½ volt medium flashlight battery easily replaced by removing the meter panel from the case.



No. 630 One-Third Size

## New 12 Volt Performance Meter No. 664

For Permanent Mounting on Car or Truck

Hoyt No. 618B Round Lighted Meter with Bracket Available for 6-Volt Systems

An accurate and precise moving coil Voltmeter, of neat appearance, for permanent installation on any motor vehicle for a dependable and continuous check on the vehicle's storage battery, generator, and regulator.

It is made especially for the drivers who cannot afford EVEN ONE battery, generator, or regulator, failure: Police cars, fire-apparatus, doctors, salesmen, etc.

The meter is equipped with a direct reading scale—in color—for testing the battery under load (using starter) and a second colored scale for continuously checking the generator and the regulator action as the car is driven. This makes possible immediate detection of improper electrical action, and indicates possible failure before it happens.

Furthermore a specially designed bracket allows the meter to be installed at the lower edge of the instrument panel of practically ANY car or light truck, so it may be directly before the driver's eyes.

A 30-inch insulated double-conductor lead terminating in spade terminals, marked for polarity, is attached to the meter, for ease in making connection.

For reading at night, an illuminating device consisting of a small bulb is designed to fit the rear of the meter case, to illuminate the translucent dial.



No. 664



# NO. 17-3 AA ALTERNATOR AMMETER AND SHUNT WITH LEADS

For 6 or 12-Volt Systems

A Precise Moving-Coil Meter for Instrument Panel Mounting on Vehicles Using Alternator Generating System. Illustration is One-half Size.

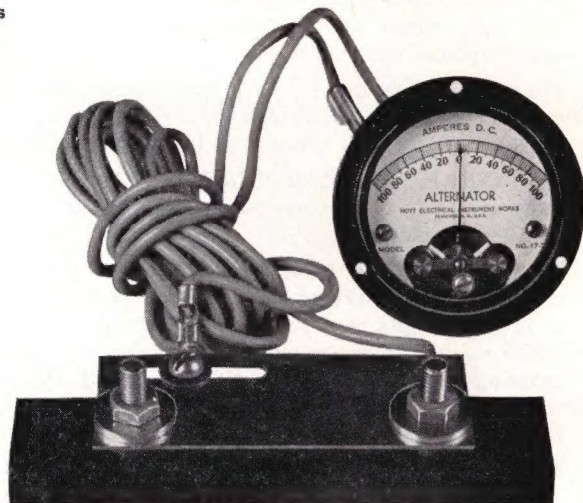
The Hoyt Dash-mounting Alternator Ammeter has been calibrated to give a true reading of amperes, delivered by an Alternator, through a Rectifier and voltage regulator to a battery installed on a car. It has been calibrated to make allowance for the size and length of the shunt leads complete with the battery in the circuit, and meter mounted on a steel panel.

The insulated shunt is mounted in any convenient place on the engine side of the bulk-head. The 48" shunt leads carry only a fraction of the total charging current; therefore, small wires can be used, and can be easily run up to the meter mounting position on the dash.

The bakelite case ammeter has an overall flange diameter of about 2 3/8" and mounts in a 2 1/4" hole. Use the Hoyt LE4B Bracket for lower edge of panel mounting.

For No. 85 80/0/80 Alternator Ammeter with internal shunt, see Page 11.

The reading of the Ammeter will be much the same as the ordinary car ammeter which it replaces, except the capacity is much higher, and the indication more accurate. A model with inside illumination and translucent dial for night-driving is also available.



For No. 85 80/0/80 Alternator Ammeter with internal shunt, see Page 11.

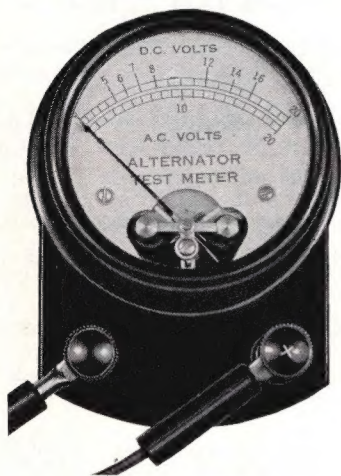
## ALTERNATOR TEST METERS

The Hoyt No. 614 Alternator Test Meter is a specially designed instrument to read both A.C. and D.C. Voltage up to 20 volts. Two terminals are provided and either of them may be used for measuring A.C. Voltage. One terminal, however, is marked with a "plus" and the plus lead should be connected to this terminal when measuring D.C. Voltage.

The movement is of the repulsion type; sensitive but pneumatically damped, so that the meter pointer will quickly come to rest without any flicker or stiff action.

The movement is housed in a small bakelite case which fits the coat pocket. Attached to this case is a strong metal bale constructed to suspend the meter in any convenient place. A pair of rubber covered leads 5 feet long with clips is also supplied.

The scale is carefully designed to allow quick reading at the important points in testing the A.C. Alternator.



NO. 614/BB

A.C.-D.C. TEST METER WITH 5-FT. LEADS AND CLIPS—HALF SIZE

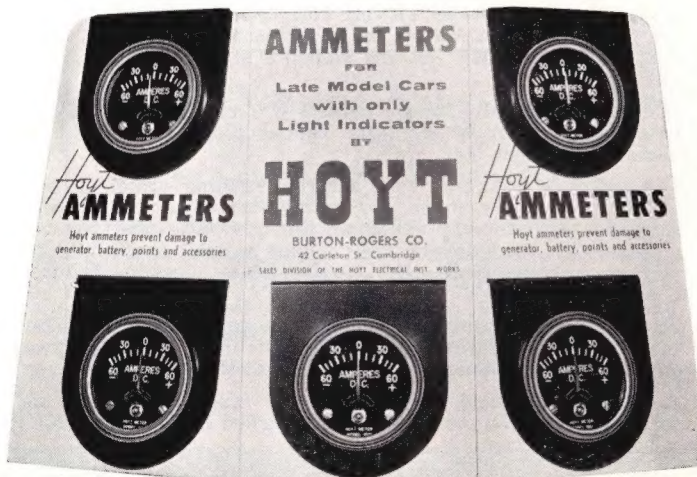
Drivers of late model cars equipped with "No Charge" lights can tell only when the generator is charging or is not charging. They have no way of knowing how much or how little. If the charging system develops a short the driver would never know it! Now, install a HOYT ammeter No. 1501 and save worry!

The meter is handsome and dependable, 60-0-60 amps. scale with wider divisions up to 30 amps. for easier readings.

It fits either 6 or 12 volt systems—Hoyt quality throughout, can be mounted easily on the lower edge of the instrument panel in most cases. Furnished in attractive polished nickel case, mounted in black enamel bracket. Sold individually or in display No. 1601 with 5 ammeters.

## HOYT AMMETER NO. 1501 AND AMMETER DISPLAY NO. 1601

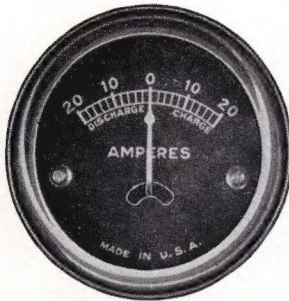
For Late Model Cars Equipped with "No Charge" Lights Only





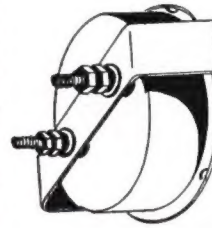
# HOYT AMMETERS — Centre Zero Scales

FOR TRACTORS, BOATS, LIGHTING PLANTS, AUTOMOBILES  
STATIONARY ENGINE PANELS, TRUCKS and BUSES

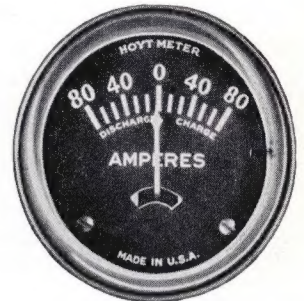


41

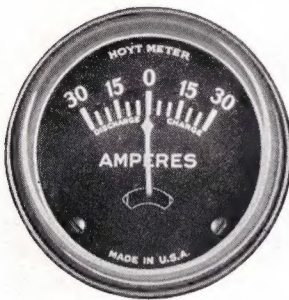
The ammeters, sometimes known as the "Automobile Type" are rugged direct current indicators for low voltage duty, which Hoyt has built for over thirty years. The line covers the field of Current measurement from 10 amperes up to 150 amps. They are especially suitable for small inexpensive panels of all types, for off-the-road vehicles like Tractors, Welders and Air Compressors.



Back of Meter  
Showing U-Clamp



85



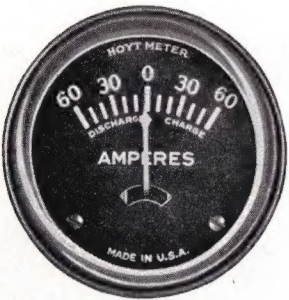
42

Those up to and including 100 amperes are stud connected—150 amperes are of the induction type, where the current carrying cable is simply laid in a groove at the back of the meter and held tightly by "fingers" attached to the meter case.

All are supplied in the popular Narrow Rim Flush polished Nickel Case, which fits a 2" or 2½" diam. hole, and all are equipped with rear U-clamps for quick and easy mounting.



86



77

Where an ammeter is to be mounted as an additional unit to an already complete panel—or where it is impractical to drill another panel hole, a sturdy steel mounting bracket is available at low cost that can quickly be attached to the panel edge top, bottom, or sides; a real time saver in many cases. It's attractively finished in black enamel.



Panel Mounting  
Bracket No. LE-3



Mounting Bracket No.  
SP-1 for Round Steering  
Posts

For ammeter installation on vehicles it is often easier to attach the meter to a round vertical column or steering post. A special metal bracket for this type of mounting is also available at low cost.



87



4430A

In some cases a wide rim or flange is desired on an ammeter. Instead of furnishing such a wide rim case with 3-hole mounting, Hoyt offers a black finished metal ring to be used over the standard narrow rim case.

Numbers 40 and 63 are two ammeters in 20 and 30 amperes respectively, packed with the ring. Rings can be supplied with any ammeter, at small additional cost.

Two small low price ammeters, 30-0-30 amperes, of universal application are shown. No. 4430A is packed with a round adapter with three mounting holes in a wide rim which fits any panel hole from 1½" to 2¼" diameter.

No. 7202 is a similar small inexpensive ammeter 30-0-30, with a metal bracket into which it "press-fits." The bracket may be easily bent to any angle and readily attached to the edge of any small panel.



7202

## AUTOMOTIVE REPLACEMENT AMMETERS

	CAR	HOYT AMMETER		
Chevrolets	Chevrolet, '33 (Master)	66	Chevrolet Truck, '33-'34-'35	66
	Chevrolet, '34-'35-'36 (Master)	69	Chevrolet Truck, '36-'37-'38	69
Fords			Ford, '28, '29, '30, '31, Model A	44
	Ford, '26-'27, Model T	44	Ford, V-8, '33, '34	44/R
			Ford, V-8, '36, '37 and 38	81B

*Hoyt* QUALITY METERS FOR OVER FIFTY YEARS



# HERE IS A WAY TO SELL MORE HOYT AMMETERS

Exhibit on your counter one of these handsome Four-color Displays with seven ammeters used on trucks and passenger cars using heavy duty generators and alternators. They also fit tractors, off-the-road vehicles, boats, compressors and stationary engine panels.

All popular types.

## HOYT AMMETER DISPLAY—No. 1200

Seven Meters Mounted in the Display as follows:

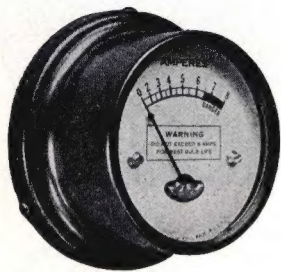
- 1—#41 20/0/20 NARROW RIM
- 1—#42 30/0/30 NARROW RIM
- 1—#7202 30/0/30 (TRACTOR)
- 1—#85 80/0/80 (ALTERNATOR) in LE-3 BRACKET
- 1—#77 60/0/60 NARROW RIM (Heavy duty generators)
- 1—#63 30/0/30 WITH RING (WIDE RIM)
- 1—#4430A 30/0/30 (UNIVERSAL)

THE COST IS LOW



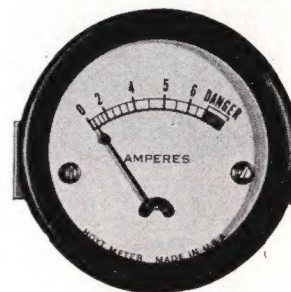
HOYT AMMETER DISPLAY NO. 1200  
15½" High X 14" Wide

## AMMETERS FOR BATTERY CHARGERS



Thousands of battery-chargers have been supplied the trade with Hoyt ammeters as original equipment. When a replacement ammeter is required for any type charger the one shown below will do the work, as it is designed and calibrated especially for this duty.

- No. 640-S15 Charger Ammeter 0/15—Surface Case
- No. 640-S8 Charger Ammeter 0/8—Surface Case
- No. 640-F8 Charger Ammeter 0/8—Flush Case

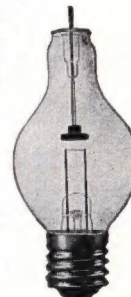


## B-R RECTIFIER BULB for REPLACEMENT in BULB TYPE BATTERY CHARGERS

The outstanding performance of these rectifier tubes is widely recognized. These tubes are carefully assembled, then thoroughly pumped on clean, all-glass exhaust systems by the best methods known. Every rectifier tube is then twice-tested and inspected for every conceivable defect. Dependable operation and exceptionally long life result. We invite comparison with the best offered by other manufacturers. Warranty: 1500 hours on 6 ampere bulb; 1200 hours on 15 ampere bulb.

### Competitive Model Numbers

Model No.	Old No.	Amperes	Volts	Continental	G.E.	Gordos	JAN	Revall	Sheldon	Westinghouse
BR-49	6G	6	90	CE-226	189049	G-49	4B26	R-49	6-G	289416
BR-83	15G	15	60	CE-235	217283	G-83	5B21	R-12	15-G	766776



Packed in standard packages of 12—Weight: 12 lbs.

Hoyt Meters in need of REPAIRS should be mailed to Hoyt Electrical Instrument Works, Penacook, N.H.



**PRICES**  
**EFFECTIVE OCT. 1, 1959**  
 Subject to Change  
 Without Notice

# HOYT METERS

## BATTERY TEST METERS

	DEALER OR GARAGE
No. CT/60 Cellchek—load type for 6 v. and 12 v. Batts. ....	\$4.65
No. CT/20 Cell Tester—load type—for both 6 and 12 v. batteries ..	9.50
No. CT/210 Cell Tester—Both load and no-load tester for both 6 and 12 v. batteries ..	15.95
Meter only for CT/2 Tester or CT/20 Tester .....	4.75
Meter only for CT/6 Tester or CT/60 Tester .....	2.30
Meter only for CT/21 Tester or CT/210 Tester .....	12.25
No. 515 Cadmium Voltmeter with pair of Prods, Cad. Stick and holder ..	29.25
No. 665 Multi-purpose Tester—0/3/9/18 volts with Prod (Improved No. 606) ..	19.95
Extra Prod and lead for No. 606 or 665 .....	1.80
Extra pair of Test Leads for No. 606 or 665 .....	2.50
Extra Cadmium Stick and Holder for No. 606 or 665 .....	5.75
Extra Cadmium Stick only .....	4.25
No. 655 Battery Condition Tester with Adjustable Prod .....	19.95
No. 700 "Piggy Back" Battery Tester .....	19.95

## TUNE UP METERS

No. GT-18 Generator Tester—5/0/60 amps. and 0/18 volts (Improved No. GT-20) ....	19.95
No. 578-A DC Regulator Test Ammeter, 10/0/100 with Heavy Test Leads .....	16.00
No. 578-V DC Regulator Test Voltmeter, 0/9/18 v. with Leads .....	16.00
No. 626—Type BB All-Purpose Ammeter .....	23.40
No. 627 Starter Current Indicator, 400/0/400 amps. ....	3.95
No. 628 Volt-Amp. Tester .....	41.75
No. 629 Starter Current Indicator, 600/0/600 amps. ....	4.45
No. 630 Circuit Tester and Ohmmeter .....	29.50
No. 633 Fixed Resistor—6 and 12 v. systems, $\frac{3}{4}$ and $1\frac{1}{2}$ ohms .....	6.50
No. 633 DR Fixed Resistor— $\frac{1}{4}$ -ohm .....	.90
No. 634 BB High Tension Tester .....	16.50
No. 651—Type BB Fast Voltage Regulator Tester for both 6 and 12 volt systems ..	25.50
No. 652 Starter Current Indicator, 1000/0/1000 amps. ....	5.00
No. 663 Generator Current Indicator, 75/0/75 amps. (replaces No. SC-3) .....	3.95

## SPECIAL TEST METERS for Alternator Systems

No. 614-BB Alternator Test Meter, 0/20 volts DC and AC .....	23.95
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## MISCELLANEOUS

No. 640-S8 Rectifier Replacement Ammeter, 0/8 amps., 2-inch size, Surface Case ....	1.80
No. 640-F8 Rectifier Replacement Ammeter, 0/8 amps., 2-inch size, Flush Case .....	1.80
No. 640-S15 Rectifier Replacement Ammeter, 0/15 amps., 2-inch size, Surface Case ..	2.10
No. 632 Type BB Bat. and Reg. Checker—6 v. or 12 v. types .....	3.75
BR-49 Bulbs for Replacement in Battery Chargers—6 amps. ....	5.00
No. 1300 Starter Cur. Ind. Display—5 No. 627 Indicators .....	19.75
No. 1401 Generator Cur. Ind. Display—5 No. 663 Indicators .....	19.75

## AMMETERS—Centre Zero Type—For Boats, Small Panels, Off-the-Road Vehicles

	DEALER	LIST
Nos. 40, 41, 20/0/20 Ammeters, and No. 63, 30/0/30 Ammeter .....	\$2.55	\$4.25
No. 42, 30/0/30 Ammeter .....	2.35	3.75
No. 44 30/0/30 amps. ....	.85	1.45
No. 44 50/0/50 amps. ....	1.27	2.45
Adapter Plates for No. 44 .....	.25	.40
No. 77 60/0/60 Ammeter .....	2.55	4.25
No. 85 80/0/80 Ammeter .....	4.40	7.35
No. 86 100/0/100 Ammeter .....	4.60	7.60
No. 87 150/0/150 Ammeter—induction type .....	6.30	10.50
Mounting Bracket for above Ammeters—No. LE-3 or SP-1 .....	.58	.95
No. 1200 Ammeter Display .....	17.75	29.30
No. 4430A Universal Ammeter, 30/0/30—Fits any hole $1\frac{1}{8}$ " to $2\frac{1}{4}$ " diam. ....	1.25	2.00
No. 4450B Universal Ammeter, 50/0/50—Fits any hole $1\frac{1}{8}$ " to $2\frac{1}{4}$ " diam. ....	1.65	2.75
No. 7202 30/0/30 Ammeter and Universal Bracket—LE-2 .....	1.50	2.50
No. 7203 50/0/50 Ammeter with LE-2 Bracket .....	1.80	3.00

## AMMETERS FOR ALTERNATING INSTALLATIONS (Prices include Excise Tax)

No. 17/3 AA Alternator Ammeter 100/0/100 amps. with shunt (Bakelite Case) .....	21.00	30.00
No. 17/3 A-III. Lighted Dial Alt. Am. 100-0-100 amps. ....	25.00	40.00
No. 85 Alternator Ammeter, 80/0/80 amps., Nar. rim with U-Clamp .....	4.75	8.00
Brackets for Mounting Alternator Ammeter—		
No. SP-1 For Round Steering Posts .....	.58	.95
No. LE-3 For Lower Edge of Panel for metal case No. 85 Ammeter .....	.58	.95
No. LE-4B Special Lower Edge Panel Bracket for Bakelite Case 17/3 AA .....	.72	1.20

## METERS for Vehicle Mounting (Prices include Excise Tax)

No. 618B Performance Meter, 6 volt system, voltmeter with light .....	12.50	21.00
No. 664 Performance Meter, 12 volt type, voltmeter with light .....	14.00	23.00
No. 1501 Ammeter Kit only .....	2.95	4.95
No. 1601 Display of 5 No. 1501 Ammeter Kits .....	14.75	24.75
No. 1700 Ammeter and Oil Gauge Combination with bracket .....	6.05	9.95
No. 1701 Display of 3 No. 1700 Ammeter and Oil Gauges .....	18.15	29.85

## AUTOMOBILE REPLACEMENT AMMETERS (Prices include Excise Tax)

AMMETERS FOR FORDS		
No. 44 (Model T, '26, '27; A, '28 to '31) 20/0/20 amps. ....	.85	1.45
No. 44/R (V-8, '33, '34) .....	1.80	3.00
No. 81/B (V-8, '36, '37 and '38) .....	1.35	2.25
AMMETERS FOR CHEVROLET—No. 66, 69 .....	1.15	1.95



# METERS

1000 900 800 700 600 500 400 300 200 100 0

